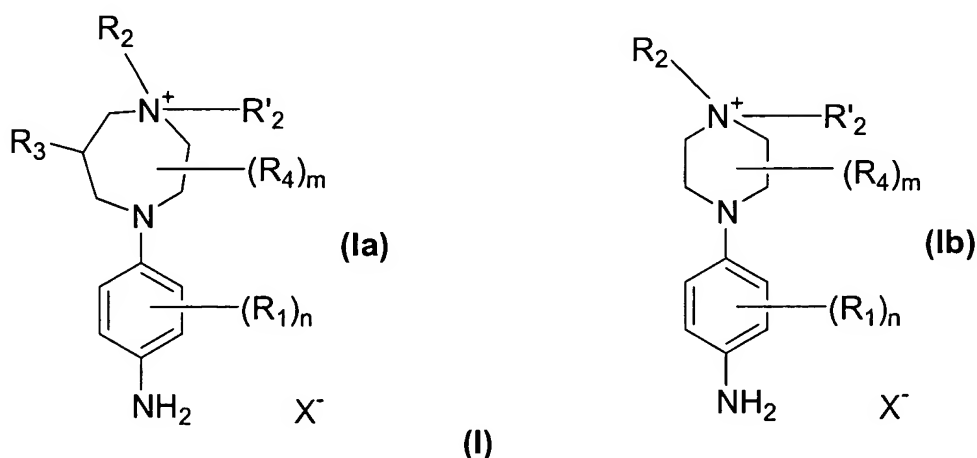


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. A full set of the pending claims, including all current amendments, is set forth below.

1. (Currently Amended) A composition for dyeing keratin fibres, comprising, in a cosmetic medium that is suitable for dyeing, at least one para-phenylenediamine derivative [[of]] chosen from formula (Ia), formula (Ib), and their addition salts:



wherein:

- R₁ is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C₁-C₈ aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO₂ groups; and wherein R₁ does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R₁ may be identical or different;
- R₂ and R'₂, which may be identical or different, are chosen from:

- saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-\text{CH}_2\text{R}$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;
- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;

- amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
- monoalkylamino radicals;
- dialkylamino radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - carboxyl radicals;
 - carboxyalkyl radicals;
 - carbamoyl radicals;
 - carbamoylalkyl radicals;
 - alkoxy carbonyl radicals;
 - monoalkylaminocarbonyl radicals;
 - dialkylaminocarbonyl radicals;
 - monoalkylaminocarbonylalkyl radicals; and
 - dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;

- alkylcarbonyl radicals;
- hydroxyalkoxyalkyl radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- hydroxy radicals
- aminoalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and

X^- is a counterion.

2. (Original) The composition according to claim 1, wherein n is equal to 0 or R_1 is chosen from alkyl radicals, hydroxyalkyl radicals, aminoalkyl radicals, alkoxy radicals, and hydroxyalkoxy radicals.

3. (Original) The composition according to claim 2, wherein n is equal to 0 or R_1 is chosen from methyl radicals, hydroxymethyl radicals, 2-hydroxyethyl radicals, 1,2-dihydroxyethyl radicals, methoxy radicals, isopropoxy radicals, and 2-hydroxyethoxy radicals.

4. (Original) The composition according to claim 1, wherein n is equal to 0 or 1.

5. (Original) The composition according to claim 1, wherein R_2 is chosen from alkyl radicals and alkyl radicals substituted with a saturated or unsaturated heterocyclic radical comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom of which is chosen from nitrogen; oxygen; sulphur; and $-CH_2R$ radicals, wherein R is an alkyl radical substituted with at least one hydroxyl radical.

6. (Original) The composition according to claim 5, wherein R_2 is chosen from a 2-hydroxyethyl radical, a 2,3-dihydroxypropyl radical, a 3-(1-pyrrolidinyl)propyl radical, and a methyl radical.

7. (Original) The composition according to claim 1, wherein R'_2 is chosen from saturated and unsaturated alkyl radicals and $-CH_2R$ radicals, wherein R is an alkyl radical substituted with at least one group chosen from hydroxyls, aminos, monoalkylaminos and dialkylaminos.

8. (Original) The composition according to claim 7, wherein R'_2 is chosen from a methyl radical, an ethyl radical, and a 2-hydroxyethyl radical.

9. (Original) The composition according to claim 1, wherein R_3 is chosen from a hydrogen atom, alkyl radicals, hydroxyalkyl radicals, aminoalkyl radicals,

carboxyl radicals, carbamoyl radicals, hydroxyl radicals, alkoxy radicals, amino radicals, monoalkylamino radicals, and dialkylamino radicals.

10. (Original) The composition according to claim 9, wherein R_3 is chosen from a hydrogen atom, hydroxyl radicals, carboxyl radicals, carbamoyl radicals, amino radicals, hydroxymethyl radicals, and aminomethyl radicals.

11. (Original) The composition according to claim 1, wherein m is equal to 0 or R_4 is chosen from alkyl radicals, hydroxyalkyl radicals, aminoalkyl radicals, carboxyl radicals, carbamoyl radicals, monoalkylcarbamoyl radicals, and dialkylcarbamoyl radicals.

12. (Original) The composition according to Claim 11, wherein m is equal to 0 or 1.

13. (Original) The composition according to claim 1, wherein the at least one para-phenylenediamine derivative is chosen from 4-(4-aminophenyl)-1-ethyl-1-methylpiperazin-1-ium chloride, 4-(4-aminophenyl)-1,1-dimethylpiperazin-1-ium chloride 4-(4-aminophenyl)-1,1-dimethyl[1,4]diazepan-1-ium chloride 4-(4-aminophenyl)-1,1-bis-(2-hydroxyethyl)[1,4]diazepan-1-ium chloride 4-(4-aminophenyl)-6-hydroxy-1,1-dimethyl[1,4]diazepan-1-ium chloride 4-(4-aminophenyl)-1-(2-methoxyethyl)-1-methylpiperazin-1-ium chloride 4-(4-aminophenyl)-1-(2-hydroxyethyl)-1-methyl[1,4]diazepan-1-ium chloride 4-(4-aminophenyl)-1,2-dimethyl-1-m-tolylpiperazin-1-ium chloride 4-(4-aminophenyl)-1-(2-hydroxyethyl)-1-methylpiperazin-1-ium chloride 4-(4-aminophenyl)-1,1-bis-(2-hydroxyethyl)piperazin-1-ium chloride 4-(4-aminophenyl)-1,2-dimethyl-1-m-tolylpiperazin-1-ium chloride 4-(4-aminophenyl)-1-ethyl-1-(2-hydroxyethyl)piperazin-1-ium chloride 4-(4-aminophenyl)-1-(2-hydroxyethyl)-1-ethyl[1,4]diazepan-1-ium chloride

4-(4-aminophenyl)-1-methyl-1-(3-pyrrolidin-1-ylpropyl)[1,4]diazepan-1-ium chloride 4-(4-aminophenyl)-1-methyl-1-(3-pyrrolidin-1-ylpropyl)piperazin-1-ium chloride 4-(4-aminophenyl)-1-carbamoylmethyl-1-methylpiperazin-1-ium chloride 4-(4-amino-3-methylphenyl)-1-ethyl-1-methylpiperazin-1-ium chloride 4-(4-amino-3-methylphenyl)-1,1-dimethylpiperazin-1-ium chloride 4-(4-amino-3-methylphenyl)-1,1-dimethyl[1,4]-diazepan-1-ium chloride 4-(4-amino-3-methylphenyl)-1,1-bis-(2-hydroxyethyl)[1,4]-diazepan-1-ium chloride 4-(4-amino-3-methylphenyl)-6-hydroxy-1,1-dimethyl[1,4]diazepan-1-ium chloride 4-(4-amino-3-methylphenyl)-1-(2-methoxyethyl)-1-methylpiperazin-1-ium chloride 4-(4-amino-3-methylphenyl)-1-(2-hydroxyethyl)-1-methyl[1,4]diazepan-1-ium chloride 4-(4-amino-3-methylphenyl)-1,2-dimethyl-1-m-tolylpiperazin-1-ium chloride, 4-(4-amino-3-methylphenyl)-1-(2-hydroxyethyl)-1-methylpiperazin-1-ium chloride, 4-(4-amino-3-methylphenyl)-1,1-bis-(2-hydroxyethyl)piperazin-1-ium chloride, 4-(4-amino-3-methylphenyl)-1,2-dimethyl-1-m-tolylpiperazin-1-ium chloride, 4-(4-amino-3-methylphenyl)-1-ethyl-1-(2-hydroxyethyl)piperazin-1-ium chloride, 4-(4-amino-3-methylphenyl)-1-(2-hydroxyethyl)-1-ethyl[1,4]diazepan-1-ium chloride, 4-(4-amino-3-methylphenyl)-1-methyl-1-(3-pyrrolidin-1-ylpropyl)[1,4]diazepan-1-ium chloride, 4-(4-amino-3-methylphenyl)-1-methyl-1-(3-pyrrolidin-1-ylpropyl)piperazin-1-ium chloride, and 4-(4-amino-3-aminophenyl)-1-carbamoylmethyl-1-methylpiperazin-1-ium chloride.

14. (Original) The composition according to claim 13, wherein the at least one para-phenylenediamine derivative is chosen from 4-(4-aminophenyl)-1,1-dimethyl[1,4]diazepan-1-ium chloride, 4-(4-aminophenyl)-1,1-dimethylpiperazin-1-ium chloride, and 4-(4-aminophenyl)-1-(2-hydroxyethyl)-1-methylpiperazin-1-ium chloride.

15. (Original) The composition according to claim 1, further comprising at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthalene-based couplers, and heterocyclic couplers, and the addition salts thereof.

16. (Original) The composition according to claim 15, wherein the amount of the at least one coupler ranges from 0.001% to 10% by weight relative to the total weight of the dye composition.

17. (Original) The composition of claim 16, wherein the amount of the at least one coupler ranges from 0.005% to 6% by weight relative to the total weight of the dye composition.

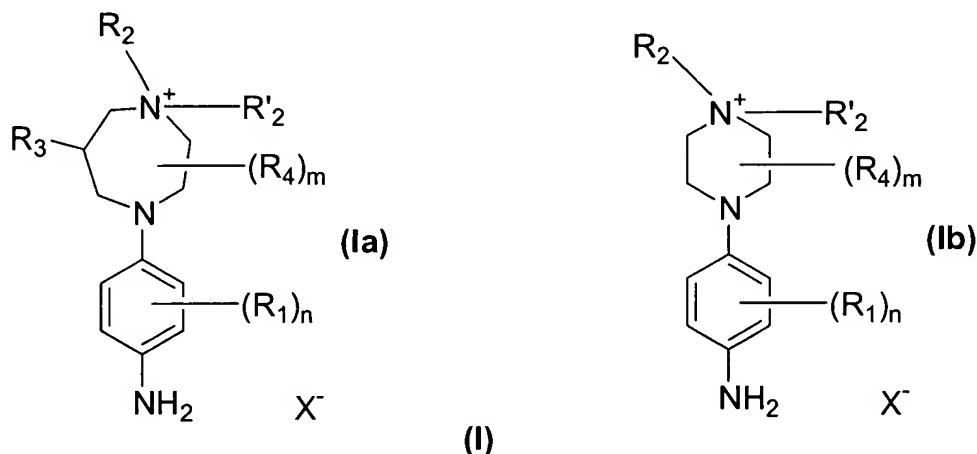
18. (Original) The composition according to claim 1, further comprising at least one additional oxidation base other than the the at least one para-phenylenediamine derivative, chosen from para-phenylenediamines, bis(phenyl)alkylenediamines, para-aminophenols, bis-para-aminophenols, ortho-aminophenols, ortho-phenylenediamines and heterocyclic bases, and the addition salts thereof.

19. (Original) The composition according to claim 18, wherein the amount of the at least one additional oxidation base ranges from 0.001% to 10% by weight relative to the total weight of the dye composition.

20. (Original) The composition according to claim 19, wherein the amount of the at least one additional oxidation base ranges from 0.005% to 6% by weight relative to the total weight of the dye composition.

21. (Currently Amended) A process for dyeing keratin fibres comprising applying a composition to keratin fibres in the presence of an oxidizing agent, for a time

that is sufficient to develop a desired coloration, the composition comprising, in a cosmetic medium that is suitable for dyeing, at least one para-phenylenediamine derivative chosen from formula (Ia), formula (Ib), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and
- wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may be optionally substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated

heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-CH_2R$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;

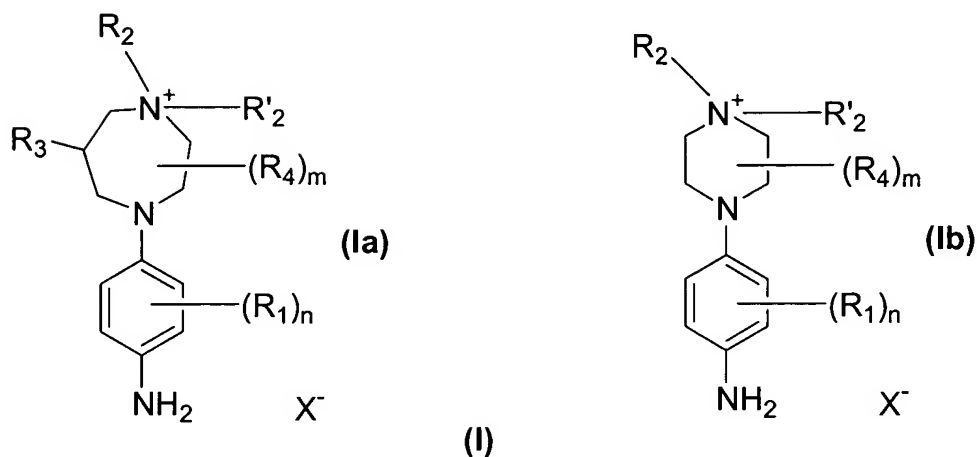
- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
 - monoalkylamino radicals;

- dialkylamino radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - hydroxy radicals

- aminoalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and
- X^- is a counterion.

22. (Original) The process according to claim 21, wherein the oxidizing agent is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, persalts, peracids and oxidase enzymes.

23. (Currently Amended) A multi-compartment device comprising a first compartment comprising a composition for dyeing keratin fibres, and a second compartment comprising an oxidizing agent, the composition for dyeing keratin fibres comprising, in a cosmetic medium that is suitable for dyeing, at least one para-phenylenediamine derivative ~~[[of]]~~ chosen from formula (Ia), formula (Ib), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may be optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-CH_2R$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at

least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;

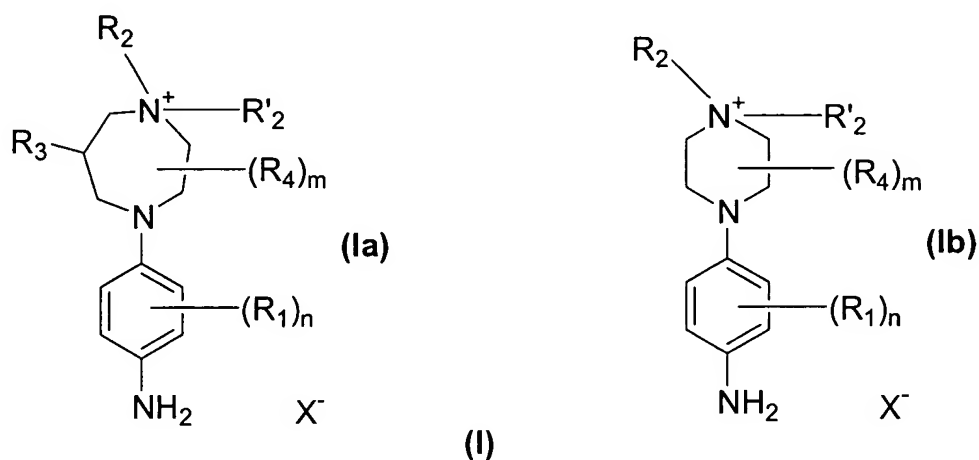
- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
 - monoalkylamino radicals;
 - dialkylamino radicals;

- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - hydroxy radicals
 - aminoalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and
- X^- is a counterion.

24. (Currently Amended) At least one para-Phenylenediamine derivative [[of]]
chosen from formula (Ia), formula (Ib), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and

- saturated and unsaturated C₁-C₈ aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO₂ groups; and wherein R₁ does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R₁ may be identical or different;
- R₂ and R'₂, which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may be optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and -CH₂R radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;
 - aryl radicals; and
 - benzyl radicals;
- R₃ is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;

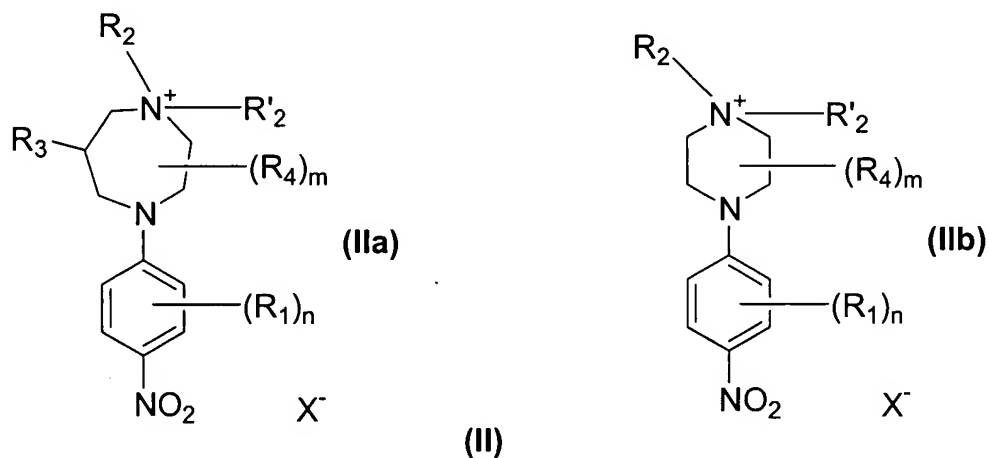
- hydroxyalkyl radicals;
- alkoxy radicals;
- alkoxyalkyl radicals;
- alkylcarbonyl radicals;
- hydroxyalkoxyalkyl radicals;
- amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
- monoalkylamino radicals;
- dialkylamino radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and

- dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - hydroxy radicals
 - aminoalkyl radicals;
 - carboxyl radicals;
 - carboxyalkyl radicals;
 - carbamoyl radicals;
 - carbamoylalkyl radicals;
 - alkoxycarbonyl radicals;
 - monoalkylaminocarbonyl radicals;
 - dialkylaminocarbonyl radicals;
 - monoalkylaminocarbonylalkyl radicals; and
 - dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and

- X^- is a counterion.

wherein the at least one para-phenylenediamine derivative is not substituted with a diazacyclohexane ring wherein n is equal to 0, m is equal to 0 and R_2 and R'_2 are methyl radicals.

[[24]]25. (Currently Amended) At least one para-Nitroaniline derivative [[of]]
chosen from formula (IIa), (IIb), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and
- wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:

- saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may be optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-\text{CH}_2\text{R}$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;
- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;

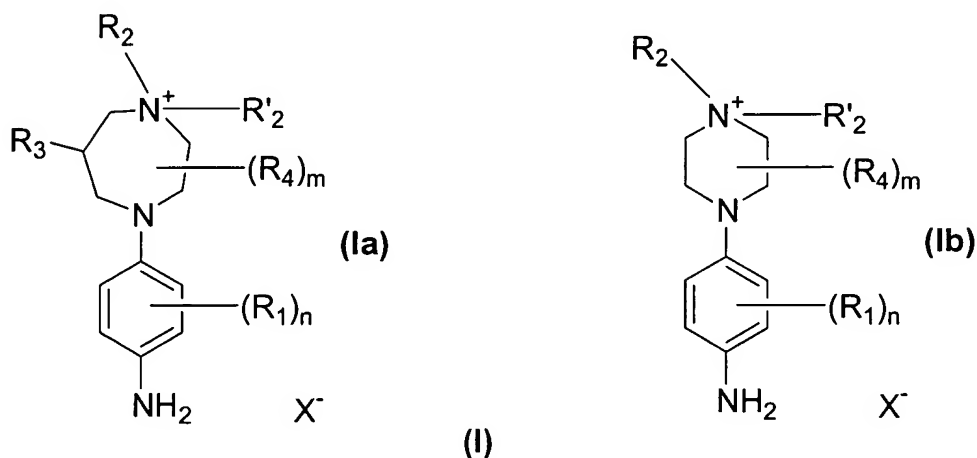
- amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
- monoalkylamino radicals;
- dialkylamino radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;

- alkylcarbonyl radicals;
- hydroxyalkoxyalkyl radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- hydroxy radicals
- aminoalkyl radicals;
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and
- X^- is a counterion

wherein the at least one paraphenylenediamine is not 4-(4-nitrophenyl)-1,1-dimethylpiperazin-1-ium.

26. (New) A composition for dyeing keratin fibres, comprising, in a cosmetic medium that is suitable for dyeing,

(a) at least one para-phenylenediamine derivative chosen from formula (Ia),
formula (Ib), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and
 wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from

nitrogen, oxygen, and sulphur; and $-\text{CH}_2\text{R}$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;

- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
 - monoalkylamino radicals;
 - dialkylamino radicals;

- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- R_4 is chosen from:
 - saturated and unsaturated alkyl radicals;
 - hydroxyalkyl radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - hydroxy radicals
 - aminoalkyl radicals;

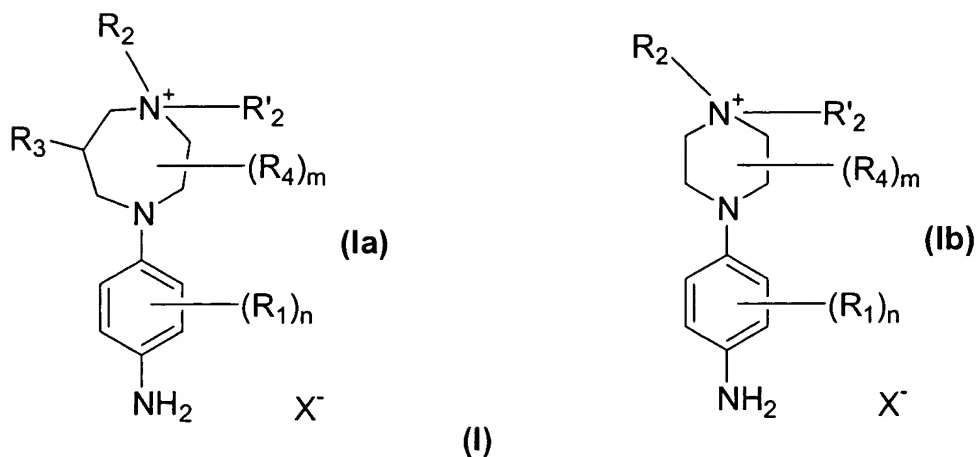
- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and

X^- is a counterion and

(b) at least one adjuvant chosen from anionic, cationic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof, anionic, cationic, nonionic, amphoteric and zwitterionic polymers and mixtures thereof, inorganic and organic thickeners, antioxidants, penetration agents, sequestering agents, fragrances, buffers, dispersing agents, packaging agents, film-forming agents, ceramides, preserving agents and opacifiers.

27. (New) A composition for dyeing keratin fibres, comprising, in a cosmetic medium that is suitable for dyeing,

(a) at least one para-phenylenediamine derivative chosen from formula (1a), formula (1b), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-CH_2R$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical

chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;

- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
 - monoalkylamino radicals;
 - dialkylamino radicals;

- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;

• R_4 is chosen from:

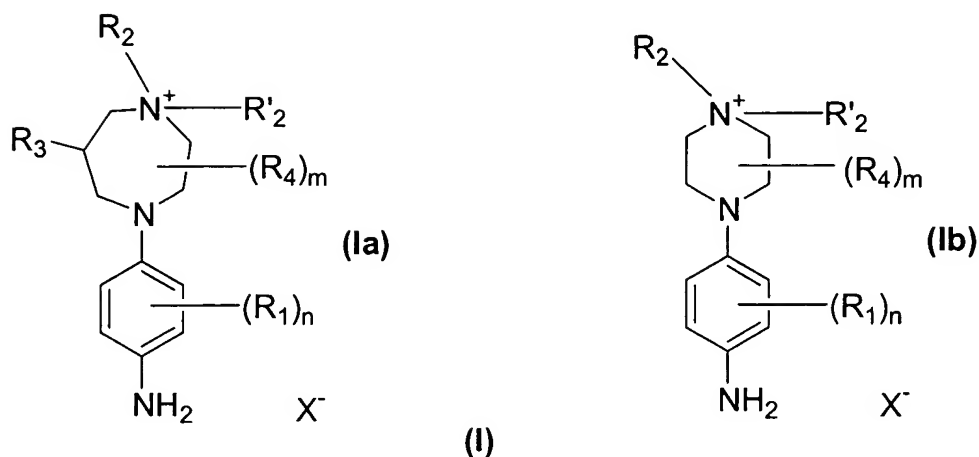
- saturated and unsaturated alkyl radicals;
- hydroxyalkyl radicals;
- alkoxyalkyl radicals;
- alkylcarbonyl radicals;
- hydroxyalkoxyalkyl radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- hydroxy radicals
- aminoalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and

X^- is a counterion and

(b) at least one adjuvant chosen from anionic, cationic, nonionic, amphoteric and zwitterionic surfactants and mixtures thereof, anionic, cationic, nonionic, amphoteric and zwitterionic polymers and mixtures thereof.

28. (New) A composition for dyeing keratin fibres, comprising, in a cosmetic medium that is suitable for dyeing, at least one para-phenylenediamine derivative chosen from formula (Ia), formula (Ib), and their addition salts:



wherein:

- R_1 is chosen from:
 - a halogen atom; and
 - saturated and unsaturated C_1 - C_8 aliphatic and alicyclic hydrocarbon-based chains, wherein at least one carbon atom is optionally replaced with at least one entity chosen from oxygen, nitrogen, silicon, sulphur, and SO_2 groups; and wherein R_1 does not comprise peroxide bonds or diazo, nitro or nitroso radicals;
- n ranges from 0 to 4, wherein, when n is greater than 1, each R_1 may be identical or different;
- R_2 and R'_2 , which may be identical or different, are chosen from:
 - saturated and unsaturated alkyl radicals, wherein saturated and unsaturated alkyl radicals may optionally be substituted with at least one radical chosen from carboxyls, alkylcarbonyls, alkoxycarbonyls, carbamoyls, monoalkylcarbamoyls and dialkylcarbamoyls, and saturated and unsaturated heterocyclic radicals comprising 4, 5, 6 or 7 atoms, wherein at least one hetero atom is chosen from nitrogen, oxygen, and sulphur; and $-CH_2R$ radicals, wherein R is chosen from saturated and unsaturated alkyl radicals, substituted with at least one radical

chosen from hydroxyls, alkoxys, thiols, halogens, aminos, monoalkylaminos, dialkylaminos and amino radicals with the amine substituted with a radical chosen from alkylcarbonyls, carbamyls and alkylsulphonyls;

- aryl radicals; and
- benzyl radicals;
- R_3 is chosen from:
 - a hydrogen atom;
 - optionally unsaturated alkyl radicals;
 - hydroxyl radicals;
 - hydroxyalkyl radicals;
 - alkoxy radicals;
 - alkoxyalkyl radicals;
 - alkylcarbonyl radicals;
 - hydroxyalkoxyalkyl radicals;
 - amino radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
 - alkyl radicals substituted with at least one hydroxy radical and at least one amino radical;
 - monoalkylamino radicals;
 - dialkylamino radicals;

- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;

● R₄ is chosen from:

- saturated and unsaturated alkyl radicals;
- hydroxyalkyl radicals;
- alkoxyalkyl radicals;
- alkylcarbonyl radicals;
- hydroxyalkoxyalkyl radicals;
- aminoalkyl radicals, wherein the amine is optionally monosubstituted or disubstituted with a radical chosen from alkyl radicals, acetyl radicals and hydroxyalkyl radicals;
- hydroxy radicals
- aminoalkyl radicals;

- carboxyl radicals;
- carboxyalkyl radicals;
- carbamoyl radicals;
- carbamoylalkyl radicals;
- alkoxycarbonyl radicals;
- monoalkylaminocarbonyl radicals;
- dialkylaminocarbonyl radicals;
- monoalkylaminocarbonylalkyl radicals; and
- dialkylaminocarbonylalkyl radicals;
- m ranges from 0 to 4, wherein when m is greater than 1, each R_4 may be identical or different; and

X^- is a counterion

wherein the para-phenylenediamine derivative is not substituted with a diazacyclohexane ring wherein n is equal to 0, m is equal to 0 and R_2 and R'_2 are methyl radicals.